

Title: How Do They Make It? Designing and Building Robots

Word Study

Fill in the blanks using the words.

welding	frown	contract	contest	assembled
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1. We assembled our new table in about an hour.
2. My mother's new contract will keep her working for the next year.
3. He lost the contest because he was not very quick.
4. Because of the frown on her face, I knew she was unhappy.
5. Welding is a very dangerous activity involving high heat and melting metal.

Reading Comprehension

A. Circle T for true or F for false.

1. Kaspar and Megan are robots. T / F
2. Keeping good records is an important part of building a robot. T / F
3. The fourth step of building a robot is making a prototype. T / F
4. Robot doctors can be more accurate than human doctors. T / F
5. The study of robots is called robo-art. T / F

B. Circle the correct word(s).

1. Kaspar is able to smile and (sing / laugh).
2. Sometimes a prototype can show (new problems / good ideas).
3. Computer programs are like a robot's (brain / sensor).
4. Special robots are used to help (rescue / arrest) people.
5. There are also a lot of (fun / serious) ways adults are using robots now.

C. Choose the best answer.

1. What does Megan need help with?

- a. Making friends
- b. Showing emotions
- c. Covering her eyes
- d. Building a robot

2. What do researchers do to help robot builders?

- a. They answer questions about what the robot needs to do.
- b. They learn about all the different kinds of robots there are.
- c. They test to robot once it is made and report on how it's doing.
- d. They design what the robot is going to look like for the builders.

3. What do sensors allow robots to do?

- a. See, feel, and hear
- b. Think and work
- c. Solve problems
- d. Fix mistakes

4. What is special about the car race held each year in the US?

- a. The race is 96.5 miles long.
- b. The cars go very slowly.
- c. The winner gets a huge prize.
- d. The cars don't have drivers.

5. What are students in middle schools and high schools doing with robots?

- a. Using them instead of teachers
- b. Building them for competitions
- c. Getting help with homework from them
- d. Having them attend class

Summary

Fill in the blanks with the words.

download	prototype	sensors	accurate	autism
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Kaspar is a robot who is helping children with autism. That is one of the many ways robots help people. Designing robots has many steps. The first is deciding how a robot will be used. This helps designers figure out what their robot will look like. Then they make a prototype. This often shows if there are problems with the design. Some robots will download a program to act as its brain. Some are controlled by people. Many robots have sensors so they can see and hear. Today, robots are used by companies to build things. Robots are also used by the police and army. And they can rescue people. Some robots can drive cars and help doctors. Robots are sometimes more accurate than doctors. Many students are working with robots. They will be the next ones to make these helpful machines.